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## METHODS OF PRODUCING STARCH BASED SUPER ABSORBANT

### ABSTRACT

Starch hydrolysis matters are grafted with acrylonitrile or acrylic acid and added with alkali for neutralization so as to produce a super absorbant. The initiator of the graft copolymers is ammonium persulphate or its oxidation reduction system. When grafting the acrylic acid, cross linker N,N'-Methylene-bis-acrylamide is added. During the polymerization process, there's no need to continuously supply chlorine. Several times of vacuumization and achlorine supply before the grafting and copolymerization will be sufficient. The water absorbant is capable of observing distilled water with a weight of 2,000 times of its own, and can be used in agriculture, forestry or health applications.